GenCore version 4.5

OM protein - protein search, using sw model

Run on: September 4, 2002, 16:10:56 ; Search time 99.82 Seconds
(without alignments)
53.833 Million cell updates/sec

Title: US-09-052-089A-3
Perfect score: 1066
Sequence: 1 RTIINKLFFDLAQEEENVLD.....DLQSADKEIMSLKKKLTMLQ 220

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1066	100.0	220	4	US-09-052-089A-3	Sequence 3, Appli
2	1066	100.0	469	4	US-09-052-089A-1	Sequence 1, Appli
3	1046	98.1	469	2	US-08-968-751-2	Sequence 2, Appli
4	906	85.0	220	4	US-09-052-089A-4	Sequence 4, Appli
5	906	85.0	470	4	US-09-052-089A-2	Sequence 2, Appli
6	156	14.6	2482	1	US-08-328-254-6	Sequence 6, Appli
7	156	14.6	3248	1	US-08-353-700-1	Sequence 1, Appli
8	156	14.6	3248	5	PCT-US95-16216-1	Sequence 1, Appli
9	148.5	13.9	443	2	US-08-795-475-6	Sequence 6, Appli
10	144	13.5	414	5	PCT-US93-03077-3	Sequence 3, Appli
11	144	13.5	976	4	US-09-104-324B-4	Sequence 4, Appli
12	144	13.5	1093	5	PCT-US93-03077-1	Sequence 1, Appli
13	142	13.3	1090	4	US-09-085-199B-5	Sequence 5, Appli
14	141	13.2	914	4	US-09-085-199B-4	Sequence 4, Appli
15	140	13.1	756	4	US-09-085-199B-9	Sequence 9, Appli
16	139	13.0	576	2	US-08-533-306A-2	Sequence 2, Appli
17	139	13.0	576	2	US-08-742-923A-2	Sequence 2, Appli
18	139	13.0	816	2	US-08-533-306A-6	Sequence 6, Appli
19	139	13.0	816	2	US-08-742-923A-6	Sequence 6, Appli
20	139	13.0	885	2	US-08-533-306A-4	Sequence 4, Appli
21	139	13.0	885	2	US-08-742-923A-4	Sequence 4, Appli
22	138.5	13.0	1939	4	US-09-310-187A-1	Sequence 1, Appli
23	136.5	12.8	896	1	US-08-095-737-2	Sequence 2, Appli
24	136.5	12.8	896	1	US-08-480-145-2	Sequence 2, Appli
25	136.5	12.8	896	2	US-08-477-389-2	Sequence 2, Appli
26	135.5	12.7	316	4	US-08-098-327E-31	Sequence 31, Appl
27	135.5	12.7	316	4	US-08-462-625-31	Sequence 31, Appl
28	133.5	12.5	386	4	US-09-085-199B-2	Sequence 2, Appli
29	132.5	12.4	376	6	5180810-1	Patent No. 5180810
30	132.5	12.4	1388	4	US-09-572-191-2	Sequence 2, Appli
31	132.5	12.4	1886	4	US-08-938-105-3	Sequence 3, Appli
32	130	12.2	2101	1	US-08-466-390-4	Sequence 4, Appli
33	130	12.2	2101	1	US-08-470-950-4	Sequence 4, Appli
34	130	12.2	2101	1	US-08-467-781-4	Sequence 4, Appli
35	130	12.2	2101	1	US-08-195-487-4	Sequence 4, Appli
36	130	12.2	2101	2	US-08-483-924-4	Sequence 4, Appli
37	130	12.2	2101	4	US-09-452-294-1	Sequence 1, Appli
38	130	12.2	2101	5	PCT-US93-06160-4	Sequence 4, Appli
39	129.5	12.1	351	1	US-08-402-217A-2	Sequence 2, Appli
40	129.5	12.1	351	1	US-08-700-178-2	Sequence 2, Appli
41	129.5	12.1	351	3	US-08-995-654-2	Sequence 2, Appli
42	128.5	12.1	1388	2	US-08-685-576-1	Sequence 1, Appli
43	128	12.0	897	1	US-08-095-737-4	Sequence 4, Appli
44	128	12.0	897	1	US-08-480-145-4	Sequence 4, Appli
45	128	12.0	897	2	US-08-477-389-4	Sequence 4, Appli

ALIGNMENTS

```
RESULT 1
US-09-052-089A-3
; Sequence 3, Application US/09052089A
; Patent No. 6346605
;  GENERAL INFORMATION:
;       APPLICANT: Lee, Soo Y.
;                  Choi, Yongwon
;       TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
;                           FAMILY, AND USES THEREOF
;       NUMBER OF SEQUENCES: 16
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: David A. Jackson, Esq.
;            STREET: 411 Hackensack Ave, Continental Plaza, 4th
;                    Floor
;            CITY: Hackensack
;            STATE: New Jersey
;            COUNTRY: USA
;            ZIP: 07601
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/052,089A
;            FILING DATE: 31-Mar-1998
;            CLASSIFICATION: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Jackson Esq., David A.
;            REGISTRATION NUMBER: 26,742
;            REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 201-487-5800
;            TELEFAX: 201-343-1684
;  INFORMATION FOR SEQ ID NO: 3:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 220 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;       MOLECULE TYPE: peptide
;       HYPOTHETICAL: NO
;       FRAGMENT TYPE: internal
;       ORIGINAL SOURCE:
;            ORGANISM: Homo sapiens
;       SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-052-089A-3


  Query Match             100.0%;  Score 1066;  DB 4;  Length 220;
```

```
  Best Local Similarity   100.0%;  Pred. No. 4.7e-85;
  Matches  220;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 RTIINKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERN 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 RTIINKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERN 60

Qy     61 ATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQS 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 ATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQS 120

Qy    121 QLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSK 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 QLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSK 180

Qy    181 LQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQ 220
          ||||||||||||||||||||||||||||||||||||||||
Db    181 LQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQ 220


RESULT   2
US-09-052-089A-1
; Sequence 1, Application US/09052089A
; Patent No. 6346605
;   GENERAL INFORMATION:
;        APPLICANT: Lee, Soo Y.
;                   Choi, Yongwon
;        TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
;                            FAMILY, AND USES THEREOF
;        NUMBER OF SEQUENCES: 16
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: David A. Jackson, Esq.
;             STREET: 411 Hackensack Ave, Continental Plaza, 4th
;                     Floor
;             CITY: Hackensack
;             STATE: New Jersey
;             COUNTRY: USA
;             ZIP: 07601
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/052,089A
;             FILING DATE: 31-Mar-1998
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Jackson Esq., David A.
;             REGISTRATION NUMBER: 26,742
;             REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 201-487-5800
;             TELEFAX: 201-343-1684
;   INFORMATION FOR SEQ ID NO: 1:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 469 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: NO
;        FRAGMENT TYPE: <Unknown>
;        ORIGINAL SOURCE:
;             ORGANISM: Homo sapiens
;        SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-052-089A-1


  Query Match           100.0%;  Score 1066;  DB 4;  Length 469;
  Best Local Similarity   100.0%;  Pred. No. 1.2e-84;
  Matches  220;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 RTIINKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERN 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     56 RTIINKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERN 115

Qy     61 ATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQS 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    116 ATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQS 175

Qy    121 QLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSK 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    176 QLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSK 235

Qy    181 LQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQ 220
          ||||||||||||||||||||||||||||||||||||||||
Db    236 LQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQ 275


RESULT   3
US-08-968-751-2
; Sequence 2, Application US/08968751
; Patent No. 5948643
;  GENERAL INFORMATION:
;    APPLICANT:  Rubinfeld, Bonnee
;    APPLICANT:  Polakis, Paul G.
;    APPLICANT:  Ligenfelter, Carol
;    APPLICANT:  Vuong, Terilyn T.
;    TITLE OF INVENTION:  MODULATORS OF BRCA1 ACTIVITY
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ONYX Pharmaceuticals, Inc.
;      STREET:  3031 Research Drive
;      CITY:  Richmond
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94806
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/968,751
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Giotta, Gregory
;      REGISTRATION NUMBER:  32,028
;      REFERENCE/DOCKET NUMBER:  ONYX1024 GG
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (510) 262-8710
;      TELEFAX:  (510) 222-9758
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH: 469 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-968-751-2


  Query Match           98.1%;  Score 1046;  DB 2;  Length 469;
  Best Local Similarity   98.6%;  Pred. No. 6.5e-83;
  Matches  217;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy      1 RTIINKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERN 60
          |||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||
Db     56 RTIINKLFFDLAQEEENVLDAEFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERN 115

Qy     61 ATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQS 120
          |||||||||||||||||||||||||||||||||||| ||||||||||||||||||||||||
Db    116 ATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEARRLRSKMKTMEQIELLLQS 175

Qy    121 QLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSK 180
```

```
          | ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    176 QRPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSK 235

Qy    181 LQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQ 220
          ||||||||||||||||||||||||||||||||||||||||
Db    236 LQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQ 275


RESULT   4
US-09-052-089A-4
; Sequence 4, Application US/09052089A
; Patent No. 6346605
;   GENERAL INFORMATION:
;        APPLICANT: Lee, Soo Y.
;                   Choi, Yongwon
;        TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
;                            FAMILY, AND USES THEREOF
;        NUMBER OF SEQUENCES: 16
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: David A. Jackson, Esq.
;             STREET: 411 Hackensack Ave, Continental Plaza, 4th
;                     Floor
;             CITY: Hackensack
;             STATE: New Jersey
;             COUNTRY: USA
;             ZIP: 07601
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/052,089A
;             FILING DATE: 31-Mar-1998
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Jackson Esq., David A.
;             REGISTRATION NUMBER: 26,742
;             REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 201-487-5800
;             TELEFAX: 201-343-1684
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 220 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        HYPOTHETICAL: NO
;        FRAGMENT TYPE: internal
;        ORIGINAL SOURCE:
;             ORGANISM: mouse
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-052-089A-4


  Query Match             85.0%;  Score 906;  DB 4;  Length 220;
  Best Local Similarity   86.0%;  Pred. No. 3.2e-71;
  Matches  185;  Conservative   18;  Mismatches   12;  Indels    0;  Gaps    0;

Qy      1 RTIINKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERN 60
          :|||||||||||||||||| ||||||||:|:|||||||:|||||| ||||||||||||
Db      1 KTIINKLFFDLAQEEENVLDAEFLKNELDSVKAQLSQKDREKRDSQAIIDTLRDTLEERN 60

Qy     61 ATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQS 120
          ||| ||| || |||||||||||||:|||:|||||||:||| ||: ||||||||||||||
Db     61 ATVESLQNALNKAEMLCSTLKKQMKFLEQRQDETKQAREEAHRLKCKMKTMEQIELLLQS 120

Qy    121 QLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSK 180
          |  |||||||||||||||||||||||||||||||||||||||:||:||:|:||| |||||
Db    121 QRSEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKATGELADRLKKDLVSSRSK 180

Qy    181 LQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKK 215
          |:|: :|||||||||:|||||||||:|| ||:||
Db    181 LKTLNTELDQAKLELRSAQKDLQSADQEITSLRKK 215


RESULT   5
US-09-052-089A-2
; Sequence 2, Application US/09052089A
; Patent No. 6346605
;   GENERAL INFORMATION:
;        APPLICANT: Lee, Soo Y.
;                   Choi, Yongwon
;        TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
;                            FAMILY, AND USES THEREOF
;        NUMBER OF SEQUENCES: 16
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: David A. Jackson, Esq.
;             STREET: 411 Hackensack Ave, Continental Plaza, 4th
;                     Floor
;             CITY: Hackensack
;             STATE: New Jersey
;             COUNTRY: USA
;             ZIP: 07601
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/052,089A
;             FILING DATE: 31-Mar-1998
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Jackson Esq., David A.
;             REGISTRATION NUMBER: 26,742
;             REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 201-487-5800
;             TELEFAX: 201-343-1684
;   INFORMATION FOR SEQ ID NO: 2:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 470 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: NO
;        FRAGMENT TYPE: <Unknown>
;        ORIGINAL SOURCE:
;             ORGANISM: mouse
;        SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-052-089A-2


  Query Match             85.0%;  Score 906;  DB 4;  Length 470;
  Best Local Similarity   86.0%;  Pred. No. 8.2e-71;
  Matches  185;  Conservative   18;  Mismatches   12;  Indels    0;  Gaps    0;

Qy      1 RTIINKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERN 60
          :|||||||||||||||||| ||||||||:|:|||||||:|||||| ||||||||||||
Db     56 KTIINKLFFDLAQEEENVLDAEFLKNELDSVKAQLSQKDREKRDSQAIIDTLRDTLEERN 115

Qy     61 ATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQS 120
          ||| ||| || |||||||||||||:|||:|||||||:||| ||: ||||||||||||||
Db    116 ATVESLQNALNKAEMLCSTLKKQMKFLEQRQDETKQAREEAHRLKCKMKTMEQIELLLQS 175

Qy    121 QLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSK 180
          |  |||||||||||||||||||||||||||||||||||||||:||:||:|:||| |||||
Db    176 QRSEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKATGELADRLKKDLVSSRSK 235

Qy    181 LQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKK 215
          |:|: :|||||||||:|||||||||:|| ||:||
Db    236 LKTLNTELDQAKLELRSAQKDLQSADQEITSLRKK 270
```

```
RESULT   6
US-08-328-254-6
; Sequence 6, Application US/08328254
; Patent No. 5710022
;  GENERAL INFORMATION:
;    APPLICANT:  Zhu, Xueliang
;    APPLICANT:  Lee, Wen-Hwa
;    TITLE OF INVENTION:  A No. 5710022el Nuclear Mitotic Phosphoprotein
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Campbell and Flores
;      STREET:  4370 La Jolla Village Drive, Suite 700
;      CITY:  San Diego
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  92122
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/328,254
;      FILING DATE:  24-OCT-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/141,239
;      FILING DATE:  22-OCT-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Campbell, Cathryn A.
;      REGISTRATION NUMBER:  31,815
;      REFERENCE/DOCKET NUMBER:  P-CJ 1191
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 535-9001
;      TELEFAX:  (619) 535-8949
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2482 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-328-254-6


  Query Match             14.6%;  Score 156;  DB 1;  Length 2482;
  Best Local Similarity   23.6%;  Pred. No. 4.3e-05;
  Matches   57;  Conservative   55;  Mismatches   90;  Indels   40;  Gaps    7;

Qy      19 LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGKA-EMLC 77
           ||   |::| :|:  |: :|  :  :  :: : :  |||:    : :::    | |||
Db    1571 LDLVTLRSEKENLTKQIQEKQGQLSELDKLLSSFKSLLEEKEQAEIQIKEESKTAVEMLQ 1630

Qy      78 STLKKQ------------MKYLEQQQD----ETKQAQEEAGRLRSKMKTMEQIELLLQS 120
           : ||:               ||  ||  |    |  | :    :||:::  |: :| :
Db    1631 NQLKELNEAVAALCGDQEIMKATEQSLDPPIEEEHQLRNSIEKLRARLEADEKKQLCVLQ 1690

Qy     121 QLPE----------VEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADK 169
           || |           || : |:: : ::  |  |:   : | | | ||   :   :
Db    1691 QLKESEHHADLLKGRVENLERELEIARTNQEHAALEAENSKGEVETLKAKIEGMTQSLRG 1750

Qy     170 LRKDLFSSRSKLQTVYSELDQ-----AKLEL--KSAQKDLQSADKEIMSLKKK----LTM 218
           |  |: : ||: : : :|| :     ::||:   | :  ||  ::| : :|:|    : |
Db    1751 LELDVVTIRSEKENLTNELQKEQERISELEIINSSFENILQEKEQEKVQMKEKSSTAMEM 1810

Qy     219 LQ 220
           ||
Db    1811 LQ 1812


RESULT   7
US-08-353-700-1
; Sequence 1, Application US/08353700
; Patent No. 5599919
;  GENERAL INFORMATION:
;    APPLICANT:  YEN, TIMOTHY J.
;    APPLICANT:  RATTNER, JEROME B.
;    TITLE OF INVENTION:  NUCLEIC ACID ENCODING A
;    TITLE OF INVENTION:  TRANSIENTLY-EXPRESSED KINETOCHORE PROTEIN,
;    TITLE OF INVENTION:  AND METHODS OF USE
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  DANN, DORFMAN, HERRELL AND SKILLMAN
;      STREET:  1601 MARKET STREET, SUITE 720
;      CITY:  PHILADELPHIA
;      STATE:  PA
;      COUNTRY:  USA
;      ZIP:  19103-2307
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/353,700
;      FILING DATE:  09-DEC-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  REED, JANET E.
;      REGISTRATION NUMBER:  36,252
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (215) 563-4100
;      TELEFAX:  (215) 563-4044
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3248 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  HUMAN
US-08-353-700-1


  Query Match             14.6%;  Score 156;  DB 1;  Length 3248;
  Best Local Similarity   23.6%;  Pred. No. 6e-05;
  Matches   57;  Conservative   55;  Mismatches   90;  Indels   40;  Gaps    7;

Qy      19 LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGKA-EMLC 77
           ||   |::| :|:  |: :|  :  :  :: : :  |||:    : :::    | |||
Db    2299 LDLVTLRSEKENLTKQIQEKQGQLSELDKLLSSFKSLLEEKEQAEIQIKEESKTAVEMLQ 2358

Qy      78 STLKKQ------------MKYLEQQQD----ETKQAQEEAGRLRSKMKTMEQIELLLQS 120
           : ||:               ||  ||  |    |  | :    :||:::  |: :| :
Db    2359 NQLKELNEAVAALCGDQEIMKATEQSLDPPIEEEHQLRNSIEKLRARLEADEKKQLCVLQ 2418

Qy     121 QLPE----------VEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADK 169
           || |           || : |:: : ::  |  |:   : | | | ||   :   :
Db    2419 QLKESEHHADLLKGRVENLERELEIARTNQEHAALEAENSKGEVETLKAKIEGMTQSLRG 2478

Qy     170 LRKDLFSSRSKLQTVYSELDQ-----AKLEL--KSAQKDLQSADKEIMSLKKK----LTM 218
           |  |: : ||: : : :|| :     ::||:   | :  ||  ::| : :|:|    : |
Db    2479 LELDVVTIRSEKENLTNELQKEQERISELEIINSSFENILQEKEQEKVQMKEKSSTAMEM 2538

Qy     219 LQ 220
           ||
Db    2539 LQ 2540


RESULT   8
PCT-US95-16216-1
; Sequence 1, Application PC/TUS9516216
```

```
;  GENERAL INFORMATION:
;    APPLICANT:  Yen, Timothy J.
;    APPLICANT:  Rattner, Jerome B.
;    TITLE OF INVENTION:  Nucleic Acid Encoding a Transiently
;    TITLE OF INVENTION:  Expressed Kinetochore Protein, and Methods of Use
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Dann, Dorfman, Herrell and Skillman
;      STREET:  1601 Market Street   Suite 720
;      CITY:  Philadelphia
;      STATE:  PA
;      COUNTRY:  USA
;      ZIP:  19103-2307
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/16216
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/353,700
;      FILING DATE:  09-DEC-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Reed, Janet E.
;      REGISTRATION NUMBER:  36,252
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (215) 563-4100
;      TELEFAX:  (215) 563-4044
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3248 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
PCT-US95-16216-1


  Query Match             14.6%;  Score 156;  DB 5;  Length 3248;
  Best Local Similarity   23.6%;  Pred. No. 6e-05;
  Matches   57;  Conservative   55;  Mismatches   90;  Indels   40;  Gaps    7;

Qy      19 LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGKA-EMLC 77
           ||   |::| :|:  |: :|  :  :   :: : :  |||:    : :::    | |||
Db    2299 LDLVTLRSEKENLTKQIQEKQGQLSELDKLLSSFKSLLEEKEQAEIQIKEESKTAVEMLQ 2358

Qy      78 STLKKQ------------MKYLEQQQD----ETKQAQEEAGRLRSKMKTMEQIELLLQS 120
           : ||:               ||  ||  |    |  | :    :||:::::  |: :| :
Db    2359 NQLKELNEAVAALCGDQEIMKATEQSLDPPIEEEHQLRNSIEKLRARLEADEKKQLCVLQ 2418

Qy     121 QLPE-----------VEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADK 169
           || |           || : |:: : ::  |  |:   : | | | ||   :   :
Db    2419 QLKESEHHADLLKGRVENLERELEIARTNQEHAALEAENSKGEVETLKAKIEGMTQSLRG 2478

Qy     170 LRKDLFSSRSKLQTVYSELDQ-----AKLEL--KSAQKDLQSADKEIMSLKKK----LTM 218
           |  |: : ||: : : :|| :     ::||:   | :  ||  ::| : :|:|    : |
Db    2479 LELDVVTIRSEKENLTNELQKEQERISELEIINSSFENILQEKEQEKVQMKEKSSTAMEM 2538

Qy     219 LQ 220
           ||
Db    2539 LQ 2540


RESULT   9
US-08-795-475-6
; Sequence 6, Application US/08795475
; Patent No. 5965390
;  GENERAL INFORMATION:
;    APPLICANT:  Bjvrck, Lars
;    APPLICANT:  Sjvbring, Ulf
;    TITLE OF INVENTION:  PROTEIN L AND HYBRID PROTEINS THEREOF
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SEED and BERRY LLP
;      STREET:  6300 Columbia Center, 701 Fifth Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98104-7092
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/795,475
;      FILING DATE:  11-FEB-1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McMasters, David D.
;      REGISTRATION NUMBER:  33,963
;      REFERENCE/DOCKET NUMBER:  100084.402D1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 622-4900
;      TELEFAX:  (206) 682-6031
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  443 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-795-475-6


  Query Match             13.9%;  Score 148.5;  DB 2;  Length 443;
  Best Local Similarity   23.5%;  Pred. No. 2.2e-05;
  Matches   51;  Conservative   58;  Mismatches   97;  Indels   11;  Gaps    6;

Qy       9 FDLAQEEENVLDREFLKNELDNVRAQLSQK-DKEKRDSQVIIDTLRDTLEERNATVVSLQ 67
           :|||:|  :  ||: |: ||:  :  |    |:  ||        ::  |:: |  :::
Db      78 YDLAKESTS-WDRQRLEKELEEKKEALELAIDQASRDYHRATALEKELEEKKKALELAID 136

Qy      68 QALGKAEMLCSTLKKQMKYLEQQQDETK----QAQEEAGRLRSKMK--TMEQIELLLQSQ 121
           ||  :     : |:|::: : ::|:  :     |: |  :| |: :  |:|: :|  : |
Db     137 QA-SQDYNRANVLEKELETITREQEINRNLLGNAKLELDQLSSEKEQLTIEKAKLEEEKQ 195

Qy     122 LPEV--EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRS 179
           : :   : : ||:   : | :|:     :|  | : :|| :: |     :||:|| :||
Db     196 ISDASRQSLRRDLDASREAKKQVEKDLANLTAELDKVKEDKQISDASRQRLRRDLDASRE 255

Qy     180 KLQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKL 216
             | :|     ||   ::: | :|     |:: |
Db     256 AKKQVEKDLANLTAELDKVKEEKQISDASRQRLRRDL 292


RESULT  10
PCT-US93-03077-3
; Sequence 3, Application PC/TUS9303077
;  GENERAL INFORMATION:
;    APPLICANT:  Board of Regents, The Universityof Texas System
;    APPLICANT:  Gaynor, Richard B.
;    APPLICANT:  Wu, Foon Kin
;    TITLE OF INVENTION:  PROTEIN CELLULAR FACTOR USEFUL FOR
;    TITLE OF INVENTION:  REGULATING GENE EXPRESSION
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Arnold White & Durkee
;      STREET:  P.O. Box 4433
;      CITY:  Houston
;      STATE:  Texas
;      COUNTRY:  USA
```

```
;      ZIP:  77210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US93/03077
;      FILING DATE:  19930331
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/862,025
;      FILING DATE:  April 2, 1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kammerer, Patricia A.
;      REGISTRATION NUMBER:  29,775
;      REFERENCE/DOCKET NUMBER:  UTFD270PCT
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  713-787-1540
;      TELEFAX:  713-749-2679
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  414 amino acids
;      TYPE:  AMINO ACID
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  peptide
PCT-US93-03077-3


  Query Match             13.5%;  Score 144;  DB 5;  Length 414;
  Best Local Similarity   23.8%;  Pred. No. 5e-05;
  Matches   60;  Conservative   47;  Mismatches   77;  Indels   68;  Gaps   10;

Qy      11 LAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTL---EERNATVVSLQ 67
           |:::|:     |||  :|:   |||    |||    :   | |:| :   :| :::: ||:
Db       5 LSEKEDVCKTVEFLNEKLEKREAQLLSLSKEKALLEEAFDNLKDEMFRVKEESSSISSLK 64

Qy      68 --------QALGKAEMLC---STLKKQMKYLEQ----------------QQDETKQAQEE 100
                  :|  | :: |      ||::| :::                 ::|| :   |
Db      65 DEFTQRIAEAEKKVQLACKERDAAKKEIKNIKEELATRLNSSETADLLKEKDEQIRGLME 124

Qy     101 AG---------------RLRSKMKTMEQIELLLQSQLPEVEEMIRDMGV---GQSAVEQL 142
            |               :||:| |  | :   |  :: |:|| :: :     |:  ||
Db     125 EGEKLSKQQLHNSNIIKKLRAKDKENENMVAKLNKKVKELEEELQHLKQVLDGKEEVE-- 182

Qy     143 AVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDL 202
                 |:  ||:|:       : ::  |||     :||    ||::      :| |  |
Db     183 -------KQHRENIKKL----NSMVERQEKDL----GRLQVDMDELEEKN---RSIQAAL 224

Qy     203 QSADKEIMSLKK 214
           || ||:  | |
Db     225 DSAYKELTDLHK 236


RESULT  11
US-09-104-324B-4
; Sequence 4, Application US/09104324B
; Patent No. 6232460
;  GENERAL INFORMATION:
;    APPLICANT:  T reci, Ozlem; Sahin, Ugur; Pfreundschuh, Michael
;    TITLE OF INVENTION:  Methods For Diagnosis And Treating Cancers,
;    TITLE OF INVENTION:  And Methods For Identifying Pathogenic Markers In A Sample Of
;    TITLE OF INVENTION:  No. 6232460mal Cells
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Fulbright & Jaworski LLP
;      STREET:  666 Fifth Avenue
;      CITY:  New York City
;      STATE:  New York
;      ZIP:  10103
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.5 inch, 144 kb storage
;      COMPUTER:  IBM
;      OPERATING SYSTEM:  PC-DOS
;      SOFTWARE:  Wordperfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/104,324B
;      FILING DATE:  25-June-1998
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/892,702
;      FILING DATE:  15-July-1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hanson, No. 6232460man D.
;      REGISTRATION NUMBER:  30,946
;      REFERENCE/DOCKET NUMBER:  LUD 5491
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 318-3000
;      TELEFAX:  (212) 752-5958
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  976 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-09-104-324B-4


  Query Match             13.5%;  Score 144;  DB 4;  Length 976;
  Best Local Similarity   25.9%;  Pred. No. 0.00015;
  Matches   59;  Conservative   56;  Mismatches   79;  Indels   34;  Gaps   11;

Qy      10 DLAQEEENVLDREFLKN-ELDNVRAQLSQKDKE--KRDSQVIIDTLRDTLEERNATVVSL 66
           ||  | ||    | ||| || :   :|| ::||  :  | : :: |::  |: |
Db     501 DLKTELEN----EKLKNTELTSHCNKLSLENKELTQETSDMTLE-LKNQQEDINNNKKQE 555

Qy      67 QQALGKAEMLCST---LKKQMKY----LEQQQDETK----QAQEEAGRLRSKMKTMEQ-I 114
           :: | : | |  |   |: :::|    |:|::|| |    :::|    || :::   : |
Db     556 ERMLKQIENLQETETQLRNELEYVREELKQKRDEVKCKLDKSEENCNNLRKQVENKNYI 615

Qy     115 ELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDL 174
           |    :| :  : ::  |  :|  :|| || : : |    |: |::  ||: |  :|::
Db     616 E-----ELQQENKALKKKGTAES--KQLNVYEIKVNKLELELESAKQKFGEITDTYQKEI 668

Qy     175 FSSRSKLQTVYSELDQAKLELKSAQKDLQSADK-------EIMSLKKK 215
           :  : :  |:::||:    | |  :  ||       |:::| :|
Db     669 EDKKISEENLLEEVEKAKVIADEAVKLQKEIDKRCQHKIAEMVALMEK 716


RESULT  12
PCT-US93-03077-1
; Sequence 1, Application PC/TUS9303077
;  GENERAL INFORMATION:
;    APPLICANT:  Board of Regents, The Universityof Texas System
;    APPLICANT:  Gaynor, Richard B.
;    APPLICANT:  Wu, Foon Kin
;    TITLE OF INVENTION:  PROTEIN CELLULAR FACTOR USEFUL FOR
;    TITLE OF INVENTION:  REGULATING GENE EXPRESSION
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Arnold White & Durkee
;      STREET:  P.O. Box 4433
;      CITY:  Houston
;      STATE:  Texas
;      COUNTRY:  USA
;      ZIP:  77210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US93/03077
;      FILING DATE:  19930331
;      CLASSIFICATION:
```

```
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/862,025
;      FILING DATE:  April 2, 1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kammerer, Patricia A.
;      REGISTRATION NUMBER:  29,775
;      REFERENCE/DOCKET NUMBER:  UTFD270PCT
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  713-787-1540
;      TELEFAX:  713-749-2679
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1093 amino acids
;      TYPE:  AMINO ACID
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
PCT-US93-03077-1


  Query Match             13.5%;  Score 144;  DB 5;  Length 1093;
  Best Local Similarity   23.8%;  Pred. No. 0.00017;
  Matches   60;  Conservative   47;  Mismatches   77;  Indels   68;  Gaps   10;

Qy      11 LAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTL---EERNATVVSLQ 67
           |:::|:     |||  :|:   |||    |||   :   | |:| :   :| :::: ||:
Db     441 LSEKEDVCKTVEFLNEKLEKREAQLLSLSKEKALLEEAFDNLKDEMFRVKEESSSISSLK 500

Qy      68 --------QALGKAEMLC---STLKKQMKYLEQ----------------QQDETKQAQEE 100
                  :|  | :: |       ||::| :::                 ::||  :   |
Db     501 DEFTQRIAEAEKKVQLACKERDAAKKEIKNIKEELATRLNSSETADLLKEKDEQIRGLME 560

Qy     101 AG---------------RLRSKMKTMEQIELLLQSQLPEVEEMIRDMGV---GQSAVEQL 142
            |               :||:| |  | :   |  :: |:|| :: :     |:  ||
Db     561 EGEKLSKQQLHNSNIIKKLRAKDKENENMVAKLNKKVKELEEELQHLKQVLDGKEEVE-- 618

Qy     143 AVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDL 202
                 |:  ||:|:       : ::  |||     :||    ||::     :| |  |
Db     619 -------KQHRENIKKL----NSMVERQEKDL----GRLQVDMDELEEKN---RSIQAAL 660

Qy     203 QSADKEIMSLKK 214
           || ||:  | |
Db     661 DSAYKELTDLHK 672


RESULT  13
US-09-085-199B-5
; Sequence 5, Application US/09085199B
; Patent No. 6235879
;  GENERAL INFORMATION:
;    APPLICANT:  Hayden. Michael R.
;    APPLICANT:  Hackam, Abigail
;    APPLICANT:  Huq, A.H.M. Mahbubul
;    APPLICANT:  Chopra, Vikramjit Singh
;    APPLICANT:  Kalchman, Michael
;    TITLE OF INVENTION:  Apoptosis Modulators That Interact with the
;    TITLE OF INVENTION:  Huntington's Disease Gene
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Oppedahl & Larson
;      STREET:  PO Box 5270
;      CITY:  Frisco
;      STATE:  CO
;      COUNTRY:  USA
;      ZIP:  80443-5270
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50 inch, 1.44 Kb storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS DOS 5.0
;      SOFTWARE:  WordPerfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/085,199B
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Larson, Marina T.
;      REGISTRATION NUMBER:  32038
;      REFERENCE/DOCKET NUMBER:  UBC.P-013US2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (970) 668-2050
;      TELEFAX:  (970) 668-2052
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1090
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  no
;    ORIGINAL SOURCE:
;      ORGANISM:  human
;    FEATURE:
;      OTHER INFORMATION:  Huntington-interacting protein
US-09-085-199B-5


  Query Match             13.3%;  Score 142;  DB 4;  Length 1090;
  Best Local Similarity   21.9%;  Pred. No. 0.00025;
  Matches   53;  Conservative   59;  Mismatches   90;  Indels   40;  Gaps    8;

Qy       4 INKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATV 63
             :||       |:::::::|  |  |:  ::|||   :  | :|| ::  |:  : |  | :
Db     421 VNK------DEKDHLIER--LYREISGLKAQL---ENMKTESQRVVLQLKGHVSELEADL 469

Qy      64 VSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLP 123
                |     :|   |  |: ::  | :|:::|::||     :  | :  ||    |: :
Db     470 AEQQHLRQQAADDCEFLRAELDELRRQREDTEKAQRSLSEIERKAQANEQRYSKLKEKYS 529

Qy     124 EV----EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEA---------RKASG--EVAD 168
           |:      :::|         |        | |::| : |:::          ||     || :
Db     530 ELVQNHADLLRKNAEVTKQVSMARQAQVDLEREKKELEDSLERISDQGQRKTQEQLEVLE 589

Qy     169 KLRKDLFSSRSKLQTVYSELDQAK----------LELKSAQKDLQSA----DKEIMSLKK 214
            |:::| :|: :|| :   |: :             ||:  :  | |     ::|: :|:|
Db     590 SLKQELATSQRELQVLQGSLETSAQSEANWAAEFAELEKERDSLVSGAAHREEELSALRK 649

Qy     215 KL 216
           :|
Db     650 EL 651


RESULT  14
US-09-085-199B-4
; Sequence 4, Application US/09085199B
; Patent No. 6235879
;  GENERAL INFORMATION:
;    APPLICANT:  Hayden. Michael R.
;    APPLICANT:  Hackam, Abigail
;    APPLICANT:  Huq, A.H.M. Mahbubul
;    APPLICANT:  Chopra, Vikramjit Singh
;    APPLICANT:  Kalchman, Michael
;    TITLE OF INVENTION:  Apoptosis Modulators That Interact with the
;    TITLE OF INVENTION:  Huntington's Disease Gene
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Oppedahl & Larson
;      STREET:  PO Box 5270
;      CITY:  Frisco
;      STATE:  CO
;      COUNTRY:  USA
;      ZIP:  80443-5270
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50 inch, 1.44 Kb storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS DOS 5.0
;      SOFTWARE:  WordPerfect
```

```
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/085,199B
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Larson, Marina T.
;      REGISTRATION NUMBER:  32038
;      REFERENCE/DOCKET NUMBER:  UBC.P-013US2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (970) 668-2050
;      TELEFAX:  (970) 668-2052
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  914
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  no
;    ORIGINAL SOURCE:
;      ORGANISM:  human
;    FEATURE:  Huntington-interacting protein
US-09-085-199B-4


  Query Match             13.2%;  Score 141;  DB 4;  Length 914;
  Best Local Similarity   21.9%;  Pred. No. 0.00024;
  Matches   53;  Conservative   59;  Mismatches   90;  Indels   40;  Gaps    8;

Qy       4 INKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATV 63
           :||       |:::::::|  |  |:  ::|||   :  | :|| ::  |:  : |  | :
Db     245 VNK------DEKDHLIER--LYREISGLKAQL---ENMKTESQRVVLQLKGHVSELEADL 293

Qy      64 VSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLP 123
             |    :|   |  |: ::  | :|:::|::||     :  | :  ||    |: :
Db     294 AEQQHLRQQAADDCEFLRAELDELRRQREDTEKAQRSLSEIERKAQANEQRYSKLKEKYS 353

Qy     124 EV----EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEA---------RKASG--EVAD 168
           |:     :::|        |       | |::| : |:::          ||     || :
Db     354 ELVQNHADLLRKNAEVTKQVSMARQAQVDLEREKKELEDSLERISDQGQRKTQEQLEVLE 413

Qy     169 KLRKDLFSSRSKLQTVYSELDQAK----------LELKSAQKDLQSA----DKEIMSLKK 214
            |:::| :|: :|| :   |: :             ||:  :  | |     ::|: :|:|
Db     414 SLKQELGTSQRELQVLQGSLETSAQSEANWAAEFAELEKERDSLVSGAAHREEELSALRK 473

Qy     215 KL 216
           :|
Db     474 EL 475


RESULT  15
US-09-085-199B-9
; Sequence 9, Application US/09085199B
; Patent No. 6235879
;  GENERAL INFORMATION:
;    APPLICANT:  Hayden. Michael R.
;    APPLICANT:  Hackam, Abigail
;    APPLICANT:  Huq, A.H.M. Mahbubul
;    APPLICANT:  Chopra, Vikramjit Singh
;    APPLICANT:  Kalchman, Michael
;    TITLE OF INVENTION:  Apoptosis Modulators That Interact with the
;    TITLE OF INVENTION:  Huntington's Disease Gene
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Oppedahl & Larson
;      STREET:  PO Box 5270
;      CITY:  Frisco
;      STATE:  CO
;      COUNTRY:  USA
;      ZIP:  80443-5270
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50 inch, 1.44 Kb storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS DOS 5.0
;      SOFTWARE:  WordPerfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/085,199B
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Larson, Marina T.
;      REGISTRATION NUMBER:  32038
;      REFERENCE/DOCKET NUMBER:  UBC.P-013US2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (970) 668-2050
;      TELEFAX:  (970) 668-2052
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  756
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  no
;    ORIGINAL SOURCE:
;      ORGANISM:  mouse
;    FEATURE:
;      OTHER INFORMATION:  Huntington-interacting protein
US-09-085-199B-9


  Query Match             13.1%;  Score 140;  DB 4;  Length 756;
  Best Local Similarity   23.6%;  Pred. No. 0.00023;
  Matches   60;  Conservative   57;  Mismatches   81;  Indels   56;  Gaps   12;

Qy       4 INKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATV 63
           :||       |:::::::|  |  |:  :  ||   |  | :||  :  |:  : |  | :
Db      87 VNK------DEKDHLIER--LYREISGLTGQL---DNMKIESQRAMLQLKGRVSELEAEL 135

Qy      64 VSLQQALGKAEM-LCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQL 122
             || ||:  |  |  |: ::  |::|:::|::||     :  | :  ||    |: :
Db     136 AE-QQHLGRQAMDDCEFLRTELDELKRQREDTEKAQRSLTEIERKAQANEQRYSKLKEKY 194

Qy     123 PEV----------EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEA---------RKA 162
            |:           |: : : | : |       | |::| : | ::         ||
Db     195 SELVQNHADLLRKNAEVTKQVSVARQAQ-------VDLEREKKELADSFARVSDQAQRKT 247

Qy     163 --SGEVADKLRKDLFSSRSKLQTVYSELD-----QAK-----LELKSAQKDLQSA----D 206
             :| : |: :| :|| :|| ::| |:     :||      ||:  |  | :     :
Db     248 QEQQDVLENLKHELATSRQELQVLHSNLETSAQSEAKWLTQIAELEKEQGSLATVAAQRE 307

Qy     207 KEIMSLKKKLTMLQ 220
           :|: :|: :|   |
Db     308 EELSALRDQLESTQ 321


RESULT  16
US-08-533-306A-2
; Sequence 2, Application US/08533306A
; Patent No. 5837457
;  GENERAL INFORMATION:
;    APPLICANT:  Liu, Pu
;    APPLICANT:  Collins, Francis S.
;    APPLICANT:  Siciliano, Michael J.
;    APPLICANT:  Claxton, David
;    TITLE OF INVENTION:  Markers for Detection of Chromosome 16
;    TITLE OF INVENTION:  Rearrangements
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  USA
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
```

```
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/533,306A
;      FILING DATE:  September 25, 1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-00869COB
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810) 641-1600
;      TELEFAX:  (810) 641-0270
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  576 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-533-306A-2


  Query Match             13.0%;  Score 139;  DB 2;  Length 576;
  Best Local Similarity   22.6%;  Pred. No. 0.0002;
  Matches   56;  Conservative   52;  Mismatches   92;  Indels   48;  Gaps    7;

Qy      10 DLAQEEENV----------LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEE 58
           || | :|::           |::| |  || :  :  :    |||  :  |  | : |||
Db     326 DLMQLQEDLAAAERARKQADLEKEELAEELASSLSGRNALQDEKRRLEARIAQLEEELEE 385

Qy      59 RNATVVSL----QQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTME-- 112
             : ::    ::|  :|| | : |  :    :: :   :| : :   ||||:  ||
Db     386 EQGNMEAMSDRVRKATQQAEQLSNELATERSTAQKNESARQQLERQNKELRSKLHEMEGA 445

Qy     113 ------QIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKE-------- 158
                 |:::: ::|| :      | | |: |    |||:: : |||
Db     446 VKSKFKSTIAALEAKIAQLEEQVE-----QEAREKQAA-TKSLKQKDKKLKEILLQVEDE 499

Qy     159 ----------ARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKE 208
                   | | :  |  :|:: |  :  : | : :   : : ||  | :  ::  :|
Db     500 RKMAEQYKEQAEKGNARV-KQLKRQLEEAEEESQRINANRRKLQRELDEATESNEAMGRE 558

Qy     209 IMSLKKKL 216
           : :|| ||
Db     559 VNALKSKL 566


RESULT  17
US-08-742-923A-2
; Sequence 2, Application US/08742923A
; Patent No. 5869611
;  GENERAL INFORMATION:
;    APPLICANT:  Liu, Pu
;    APPLICANT:  Collins, Francis S.
;    APPLICANT:  Siciliano, Michael J.
;    APPLICANT:  Claxton, David
;    TITLE OF INVENTION:  Markers for Detection of Chromosome 16
;    TITLE OF INVENTION:  Rearrangements
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  USA
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/742,923A
;      FILING DATE:  No. 5869611ember 1, 1996
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-00869DVC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810) 641-1600
;      TELEFAX:  (810) 641-0270
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  576 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-742-923A-2


  Query Match             13.0%;  Score 139;  DB 2;  Length 576;
  Best Local Similarity   22.6%;  Pred. No. 0.0002;
  Matches   56;  Conservative   52;  Mismatches   92;  Indels   48;  Gaps    7;

Qy      10 DLAQEEENV----------LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEE 58
           || | :|::           |::| |  || :  :  :    |||  :  |  | : |||
Db     326 DLMQLQEDLAAAERARKQADLEKEELAEELASSLSGRNALQDEKRRLEARIAQLEEELEE 385

Qy      59 RNATVVSL----QQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTME-- 112
             : ::    ::|  :|| | : |  :    :: :   :| : :   ||||:  ||
Db     386 EQGNMEAMSDRVRKATQQAEQLSNELATERSTAQKNESARQQLERQNKELRSKLHEMEGA 445

Qy     113 ------QIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKE-------- 158
                 |:::: ::|| :      | | |: |    |||:: : |||
Db     446 VKSKFKSTIAALEAKIAQLEEQVE-----QEAREKQAA-TKSLKQKDKKLKEILLQVEDE 499

Qy     159 ----------ARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKE 208
                   | | :  |  :|:: |  :  : | : :   : : ||  | :  ::  :|
Db     500 RKMAEQYKEQAEKGNARV-KQLKRQLEEAEEESQRINANRRKLQRELDEATESNEAMGRE 558

Qy     209 IMSLKKKL 216
           : :|| ||
Db     559 VNALKSKL 566


RESULT  18
US-08-533-306A-6
; Sequence 6, Application US/08533306A
; Patent No. 5837457
;  GENERAL INFORMATION:
;    APPLICANT:  Liu, Pu
;    APPLICANT:  Collins, Francis S.
;    APPLICANT:  Siciliano, Michael J.
;    APPLICANT:  Claxton, David
;    TITLE OF INVENTION:  Markers for Detection of Chromosome 16
;    TITLE OF INVENTION:  Rearrangements
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  USA
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/533,306A
;      FILING DATE:  September 25, 1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
```

```
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-00869COB
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810) 641-1600
;      TELEFAX:  (810) 641-0270
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  816 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-533-306A-6


  Query Match             13.0%;  Score 139;  DB 2;  Length 816;
  Best Local Similarity   22.6%;  Pred. No. 0.00031;
  Matches   56;  Conservative   52;  Mismatches   92;  Indels   48;  Gaps    7;

Qy      10 DLAQEEENV-----------LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEE 58
           || | :|::           |::| |  || :  :  :    ||| :  |  | : |||
Db     566 DLMQLQEDLAAAERARKQADLEKEELAEELASSLSGRNALQDEKRRLEARIAQLEEELEE 625

Qy      59 RNATVVSL----QQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTME-- 112
             : ::    ::|  :|| | : |  :    :: :   :| : :   ||||:  ||
Db     626 EQGNMEAMSDRVRKATQQAEQLSNELATERSTAQKNESARQQLERQNKELRSKLHEMEGA 685

Qy     113 ------QIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKE-------- 158
                 |:::: ::|| :      | | |: |    |||:: : |||
Db     686 VKSKFKSTIAALEAKIAQLEEQVE-----QEAREKQAA-TKSLKQKDKKLKEILLQVEDE 739

Qy     159 ----------ARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKE 208
                   | | :  |  :|:: |  :  : | : :   : : ||  | :  ::  :|
Db     740 RKMAEQYKEQAEKGNARV-KQLKRQLEEAEEESQRINANRRKLQRELDEATESNEAMGRE 798

Qy     209 IMSLKKKL 216
           : :|| ||
Db     799 VNALKSKL 806


RESULT  19
US-08-742-923A-6
; Sequence 6, Application US/08742923A
; Patent No. 5869611
;  GENERAL INFORMATION:
;    APPLICANT:  Liu, Pu
;    APPLICANT:  Collins, Francis S.
;    APPLICANT:  Siciliano, Michael J.
;    APPLICANT:  Claxton, David
;    TITLE OF INVENTION:  Markers for Detection of Chromosome 16
;    TITLE OF INVENTION:  Rearrangements
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  USA
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/742,923A
;      FILING DATE:  No. 5869611ember 1, 1996
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-00869DVC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810) 641-1600
;      TELEFAX:  (810) 641-0270
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  816 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-742-923A-6


  Query Match             13.0%;  Score 139;  DB 2;  Length 816;
  Best Local Similarity   22.6%;  Pred. No. 0.00031;
  Matches   56;  Conservative   52;  Mismatches   92;  Indels   48;  Gaps    7;

Qy      10 DLAQEEENV-----------LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEE 58
           || | :|::           |::| |  || :  :  :    ||| :  |  | : |||
Db     566 DLMQLQEDLAAAERARKQADLEKEELAEELASSLSGRNALQDEKRRLEARIAQLEEELEE 625

Qy      59 RNATVVSL----QQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTME-- 112
             : ::    ::|  :|| | : |  :    :: :   :| : :   ||||:  ||
Db     626 EQGNMEAMSDRVRKATQQAEQLSNELATERSTAQKNESARQQLERQNKELRSKLHEMEGA 685

Qy     113 ------QIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKE-------- 158
                 |:::: ::|| :      | | |: |    |||:: : |||
Db     686 VKSKFKSTIAALEAKIAQLEEQVE-----QEAREKQAA-TKSLKQKDKKLKEILLQVEDE 739

Qy     159 ----------ARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKE 208
                   | | :  |  :|:: |  :  : | : :   : : ||  | :  ::  :|
Db     740 RKMAEQYKEQAEKGNARV-KQLKRQLEEAEEESQRINANRRKLQRELDEATESNEAMGRE 798

Qy     209 IMSLKKKL 216
           : :|| ||
Db     799 VNALKSKL 806


RESULT  20
US-08-533-306A-4
; Sequence 4, Application US/08533306A
; Patent No. 5837457
;  GENERAL INFORMATION:
;    APPLICANT:  Liu, Pu
;    APPLICANT:  Collins, Francis S.
;    APPLICANT:  Siciliano, Michael J.
;    APPLICANT:  Claxton, David
;    TITLE OF INVENTION:  Markers for Detection of Chromosome 16
;    TITLE OF INVENTION:  Rearrangements
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  USA
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/533,306A
;      FILING DATE:  September 25, 1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-00869COB
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810) 641-1600
;      TELEFAX:  (810) 641-0270
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  885 amino acids
```

```
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-533-306A-4


  Query Match             13.0%;  Score 139;  DB 2;  Length 885;
  Best Local Similarity   22.6%;  Pred. No. 0.00035;
  Matches   56;  Conservative   52;  Mismatches   92;  Indels   48;  Gaps    7;

Qy      10 DLAQEEENV-----------LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEE 58
           || | :|::           |::| |  || :  :  :    |||  :  |  | : |||
Db     635 DLMQLQEDLAAAERARKQADLEKEELAEELASSLSGRNALQDEKRRLEARIAQLEEELEE 694

Qy      59 RNATVVSL----QQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTME-- 112
             : ::    ::|  :|| | : |  :    :: :   :| : :   ||||:  ||
Db     695 EQGNMEAMSDRVRKATQQAEQLSNELATERSTAQKNESARQQLERQNKELRSKLHEMEGA 754

Qy     113 ------QIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKE-------- 158
                 |:::: ::|| :      | | |: |    |||:: : |||
Db     755 VKSKFKSTIAALEAKIAQLEEQVE-----QEAREKQAA-TKSLKQKDKKLKEILLQVEDE 808

Qy     159 ----------ARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKE 208
                   | | :  |  :|:: |  :  : | : :   : : ||  | :  ::  :|
Db     809 RKMAEQYKEQAEKGNARV-KQLKRQLEEAEEESQRINANRRKLQRELDEATESNEAMGRE 867

Qy     209 IMSLKKKL 216
           : :|| ||
Db     868 VNALKSKL 875


RESULT  21
US-08-742-923A-4
; Sequence 4, Application US/08742923A
; Patent No. 5869611
;  GENERAL INFORMATION:
;    APPLICANT:  Liu, Pu
;    APPLICANT:  Collins, Francis S.
;    APPLICANT:  Siciliano, Michael J.
;    APPLICANT:  Claxton, David
;    TITLE OF INVENTION:  Markers for Detection of Chromosome 16
;    TITLE OF INVENTION:  Rearrangements
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Harness, Dickey & Pierce, P.L.C.
;      STREET:  P.O. Box 828
;      CITY:  Bloomfield Hills
;      STATE:  MI
;      COUNTRY:  USA
;      ZIP:  48303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/742,923A
;      FILING DATE:  No. 5869611ember 1, 1996
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, DeAnn F.
;      REGISTRATION NUMBER:  36683
;      REFERENCE/DOCKET NUMBER:  2115-00869DVC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810) 641-1600
;      TELEFAX:  (810) 641-0270
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  885 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-742-923A-4


  Query Match             13.0%;  Score 139;  DB 2;  Length 885;
  Best Local Similarity   22.6%;  Pred. No. 0.00035;
  Matches   56;  Conservative   52;  Mismatches   92;  Indels   48;  Gaps    7;

Qy      10 DLAQEEENV-----------LDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEE 58
           || | :|::           |::| |  || :  :  :    |||  :  |  | : |||
Db     635 DLMQLQEDLAAAERARKQADLEKEELAEELASSLSGRNALQDEKRRLEARIAQLEEELEE 694

Qy      59 RNATVVSL----QQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTME-- 112
             : ::    ::|  :|| | : |  :    :: :   :| : :   ||||:  ||
Db     695 EQGNMEAMSDRVRKATQQAEQLSNELATERSTAQKNESARQQLERQNKELRSKLHEMEGA 754

Qy     113 ------QIELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKE-------- 158
                 |:::: ::|| :      | | |: |    |||:: : |||
Db     755 VKSKFKSTIAALEAKIAQLEEQVE-----QEAREKQAA-TKSLKQKDKKLKEILLQVEDE 808

Qy     159 ----------ARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKE 208
                   | | :  |  :|:: |  :  : | : :   : : ||  | :  ::  :|
Db     809 RKMAEQYKEQAEKGNARV-KQLKRQLEEAEEESQRINANRRKLQRELDEATESNEAMGRE 867

Qy     209 IMSLKKKL 216
           : :|| ||
Db     868 VNALKSKL 875


RESULT  22
US-09-310-187A-1
; Sequence 1, Application US/09310187A
; Patent No. 6358751
; GENERAL INFORMATION:
;  APPLICANT:  Benichou, Gilles
;  APPLICANT:  Fedoseyeva, Eugenia
;  TITLE OF INVENTION:  Involvement of Autoantigens in Cardiac
;  TITLE OF INVENTION:  Graft Rejection
;  FILE REFERENCE:  UCSF-090
;  CURRENT APPLICATION NUMBER: US/09/310,187A
;  CURRENT FILING DATE:  1999-05-12
;  NUMBER OF SEQ ID NOS:  3
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 1
;   LENGTH: 1939
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-310-187A-1


  Query Match             13.0%;  Score 138.5;  DB 4;  Length 1939;
  Best Local Similarity   25.2%;  Pred. No. 0.001;
  Matches   55;  Conservative   38;  Mismatches   78;  Indels   47;  Gaps    7;

Qy      24 LKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGKAEMLCSTLKKQ 83
           |  :|:   | :||  : |      :: |:  |||      :|  ||  |   |  |:
Db    1289 LARQLEEKEALISQLTRGKLSYTQQMEDLKRQLEEEGKAKNALAHALQSARHDCDLLR-- 1346

Qy      84 MKYLEQQQDETK----------QAQEEAGRLRSKMKT--------MEQIELLLQSQLPEV 125
           ||  ::||:           :|  |  : |:| :|        :|: :  |  :| :
Db    1347 ----EQYEEETEAKAELQRVLSKANSEVAQWRTKYETDAIQRTEELEEAKKKLAQRLQDA 1402

Qy     126 EEMIRDMGVGQSAVEQLAVYCVSLKK-------EYENLK---EARKASGEVADKLRKDLF 175
           ||          ||| :   | ||:|        | |:|    |   |:    || :::
Db    1403 EE----------AVEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAAALDKKQRNFD 1452

Qy     176 SSRSKLQTVYSELDQAKLELKSAQKDLQSADKEIMSLK 213
           :: :  | |   :: ||:|:||: :|   |:  ||
Db    1453 KILAEWKQKYEE---SQSELESSQKEARSLSTELFKLK 1487


RESULT  23
US-08-095-737-2
; Sequence 2, Application US/08095737
; Patent No. 5487979
```

```
;  GENERAL INFORMATION:
;    APPLICANT:  DiFiore, Pier P
;    APPLICANT:  Fazioli, Francesca
;    TITLE OF INVENTION:  A Substrate for the Epidermal Growth
;    TITLE OF INVENTION:  Factor Receptor Kinase
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Knobbe, Martens, Olson & Bear
;      STREET:  620 Newport Center Drive, Sixteenth Floor
;      CITY:  Newport Beach
;      STATE:  California
;      COUNTRY:  United States of America
;      ZIP:  92660
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/095,737
;      FILING DATE:  19930722
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Israelsen, Ned A
;      REGISTRATION NUMBER:  29,655
;      REFERENCE/DOCKET NUMBER:  NIH060.001A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 235-8550
;      TELEFAX:  (619) 235-0176
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  896 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-095-737-2


  Query Match             12.8%;  Score 136.5;  DB 1;  Length 896;
  Best Local Similarity   26.5%;  Pred. No. 0.00058;
  Matches   45;  Conservative   34;  Mismatches   62;  Indels   29;  Gaps    5;

Qy      54 DTLEERNATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQ 113
           |||   |  :| ||:     |     ||::   ::|:  | :  |:|  |  : ::
Db     336 DTL---NNEIVDLQREKNNVE---QDLKEKEDTIKQRTSEVQDLQDEVQRENTNLQK--- 386

Qy     114 IELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVA---DKL 170
               ||:|  :|:|:: ::   :: :|             | ||| ||   | |     |
Db     387 ----LQAQKQQVQELLDELDEQKAQLE------------EQLKEVRKKCAEEAQLISSL 429

Qy     171 RKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQ 220
           : :| |  |:: |   || :|: ||   |::    :: : | | :|  ||
Db     430 KAELTSQESQISTYEEELAKAREELSRLQQETAELEESVESGKAQLEPLQ 479


RESULT  24
US-08-480-145-2
; Sequence 2, Application US/08480145
; Patent No. 5717067
;  GENERAL INFORMATION:
;    APPLICANT:  DiFiore, Pier P
;    APPLICANT:  Fazioli, Francesca
;    TITLE OF INVENTION:  A Substrate for the Epidermal Growth
;    TITLE OF INVENTION:  Factor Receptor Kinase
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Knobbe, Martens, Olson & Bear
;      STREET:  620 Newport Center Drive, Sixteenth Floor
;      CITY:  Newport Beach
;      STATE:  California
;      COUNTRY:  United States of America
;      ZIP:  92660
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/480,145
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/095,737
;      FILING DATE:  22-JUL-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Israelsen, Ned A
;      REGISTRATION NUMBER:  29,655
;      REFERENCE/DOCKET NUMBER:  NIH060.001A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 235-8550
;      TELEFAX:  (619) 235-0176
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  896 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-480-145-2


  Query Match             12.8%;  Score 136.5;  DB 1;  Length 896;
  Best Local Similarity   26.5%;  Pred. No. 0.00058;
  Matches   45;  Conservative   34;  Mismatches   62;  Indels   29;  Gaps    5;

Qy      54 DTLEERNATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQ 113
           |||   |  :| ||:     |     ||::   ::|:  | :  |:|  |  : ::
Db     336 DTL---NNEIVDLQREKNNVE---QDLKEKEDTIKQRTSEVQDLQDEVQRENTNLQK--- 386

Qy     114 IELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVA---DKL 170
               ||:|  :|:|:: ::   :: :|             | ||| ||   | |     |
Db     387 ----LQAQKQQVQELLDELDEQKAQLE------------EQLKEVRKKCAEEAQLISSL 429

Qy     171 RKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQ 220
           : :| |  |:: |   || :|: ||   |::    :: : | | :|  ||
Db     430 KAELTSQESQISTYEEELAKAREELSRLQQETAELEESVESGKAQLEPLQ 479


RESULT  25
US-08-477-389-2
; Sequence 2, Application US/08477389
; Patent No. 5872219
;  GENERAL INFORMATION:
;    APPLICANT:  DiFiore, Pier P
;    APPLICANT:  Fazioli, Francesca
;    TITLE OF INVENTION:  A Substrate for the Epidermal Growth
;    TITLE OF INVENTION:  Factor Receptor Kinase
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Knobbe, Martens, Olson & Bear
;      STREET:  620 Newport Center Drive, Sixteenth Floor
;      CITY:  Newport Beach
;      STATE:  California
;      COUNTRY:  United States of America
;      ZIP:  92660
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/477,389
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/095,737
;      FILING DATE:  22-JUL-1993
```

```
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Israelsen, Ned A
;      REGISTRATION NUMBER:  29,655
;      REFERENCE/DOCKET NUMBER:  NIH060.001A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 235-8550
;      TELEFAX:  (619) 235-0176
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  896 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-477-389-2


  Query Match             12.8%;  Score 136.5;  DB 2;  Length 896;
  Best Local Similarity   26.5%;  Pred. No. 0.00058;
  Matches   45;  Conservative   34;  Mismatches   62;  Indels   29;  Gaps   5;

Qy      54 DTLEERNATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQ 113
           |||   |  :| ||:     |    ||::   ::|:  | :  |:|  |  : ::
Db     336 DTL---NNEIVDLQREKNNVE---QDLKEKEDTIKQRTSEVQDLQDEVQRENTNLQK--- 386

Qy     114 IELLLQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVA---DKL 170
               ||:|  :|:|:: ::   :: :|             | ||| ||   | |     |
Db     387 ----LQAQKQQVQELLDELDEQKAQLE------------EQLKEVRKKCAEEAQLISSL 429

Qy     171 RKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQ 220
           : :| |  |:: |   || :|: ||   |::    :: : | | :|  ||
Db     430 KAELTSQESQISTYEEELAKAREELSRLQQETAELEESVESGKAQLEPLQ 479


RESULT  26
US-08-098-327E-31
; Sequence 31, Application US/08098327E
; Patent No. 6270771
;  GENERAL INFORMATION:
;    APPLICANT:  GUERIN-MARCHAND, Claudine
;    APPLICANT:  DRUILHE, Pierre
;    TITLE OF INVENTION:  PEPTIDE SEQUENCES SPECIFIC FOR THE
;    TITLE OF INVENTION:  HEPATIC STAGES OF P. FALCIPARUM BEARING EPITOPES CAPABLE
;    TITLE OF INVENTION:  OF STIMULATING THE T LYMPHOCYTES
;    NUMBER OF SEQUENCES:  46
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Burns, Doane, Swecker & Mathis
;      STREET:  P.O. Box 1404
;      CITY:  Alexandria
;      STATE:  Virginia
;      COUNTRY:  United States
;      ZIP:  22313-1404
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/098,327E
;      FILING DATE:  24-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  FR 91 01286
;      FILING DATE:  05-FEB-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McGowan, Malcolm K.
;      REGISTRATION NUMBER:  39,300
;      REFERENCE/DOCKET NUMBER:  010830-045
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 836-6620
;      TELEFAX:  (703) 836-2021
;  INFORMATION FOR SEQ ID NO:  31:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  316 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    PUBLICATION INFORMATION:
;      DOCUMENT NUMBER:  WO 92/13884
;      PUBLICATION DATE:  20-AUG-1992
US-08-098-327E-31


  Query Match             12.7%;  Score 135.5;  DB 4;  Length 316;
  Best Local Similarity   27.1%;  Pred. No. 0.00019;
  Matches   59;  Conservative   48;  Mismatches   88;  Indels   23;  Gaps   9;

Qy      13 QEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNA--TVVSLQQAL 70
           ||::: |::: |  |   :: | |  ::|:|  : : :   |  :|| |   :   |  |
Db      14 QEQQSDLEQDRLAKE--KLQEQQSDLEQERRAKEKLQEQQSDLEQERRAKEKLQEQQSDL 71

Qy      71 GKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRL----RSKMKTMEQIELLLQSQLPEVE 126
            :       |::|   ||| :   :: ||:   |    |:| |  ||     || | :
Db      72 EQERRAKEKLQEQQSDLEQDRLAKEKLQEQQSDLEQERRAKEKLQEQ-----QSDLEQER 126

Qy     127 EMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSR---SKLQT 183
              :   || :||       |:::  :|:: |:|  :: :: : ||   |    |||
Db     127 RAKEKLQEQQSDLEQERRAKEKLQEQQSDLEQERRAKEKLQEQ-QSDLEQERRAKEKLQE 185

Qy     184 VYSELDQ---AKLELKSAQKDLQ--SAD-KEIMSLKKK 215
           |:|:|   || :|:  |:||:   || |: :  ||:
Db     186 QQSDLEQERRAKEKLQEQQRDLEQRKADTKKNLERKKE 223


RESULT  27
US-08-462-625-31
; Sequence 31, Application US/08462625
; Patent No. 6319502
;  GENERAL INFORMATION:
;    APPLICANT:  GUERIN-MARCHAND, Claudine
;    APPLICANT:  DRUILHE, Pierre
;    TITLE OF INVENTION:  PEPTIDE SEQUENCES SPECIFIC FOR THE
;    TITLE OF INVENTION:  HEPATIC STAGES OF P. FALCIPARUM BEARING EPITOPES CAPABLE
;    TITLE OF INVENTION:  OF STIMULATING THE T LYMPHOCYTES
;    NUMBER OF SEQUENCES:  46
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Burns, Doane, Swecker & Mathis
;      STREET:  P.O. Box 1404
;      CITY:  Alexandria
;      STATE:  Virginia
;      COUNTRY:  United States
;      ZIP:  22313-1404
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/462,625
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/098,327
;      FILING DATE:  24-NOV-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  FR 91 01286
;      FILING DATE:  05-FEB-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McGowan, Malcolm K.
;      REGISTRATION NUMBER:  39,300
;      REFERENCE/DOCKET NUMBER:  010830-078
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 836-6620
;      TELEFAX:  (703) 836-2021
;  INFORMATION FOR SEQ ID NO:  31:
;    SEQUENCE CHARACTERISTICS:
```

```
;      LENGTH:  316 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    PUBLICATION INFORMATION:
;      DOCUMENT NUMBER:  WO 92/13884
;      PUBLICATION DATE:  20-AUG-1992
US-08-462-625-31


  Query Match             12.7%;  Score 135.5;  DB 4;  Length 316;
  Best Local Similarity   27.1%;  Pred. No. 0.00019;
  Matches   59;  Conservative   48;  Mismatches   88;  Indels   23;  Gaps    9;

Qy      13 QEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNA--TVVSLQQAL 70
           ||::: |::: |  |   :: | |  ::|:|  : : :   |  :|| |   :   |  |
Db      14 QEQQSDLEQDRLAKE--KLQEQQSDLEQERRAKEKLQEQQSDLEQERRAKEKLQEQQSDL 71

Qy      71 GKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRL----RSKMKTMEQIELLLQSQLPEVE 126
             :      |::|   ||| :   :: ||:   |    |:| |  ||     || | :
Db      72 EQERRAKEKLQEQQSDLEQDRLAKEKLQEQQSDLEQERRAKEKLQEQ-----QSDLEQER 126

Qy     127 EMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSR---SKLQT 183
               :   || :||       |:::  :|:: |:|  :: :: : ||   |    |||
Db     127 RAKEKLQEQQSDLEQERRAKEKLQEQQSDLEQERRAKEKLQEQ-QSDLEQERRAKEKLQE 185

Qy     184 VYSELDQ---AKLELKSAQKDLQ--SAD-KEIMSLKKK 215
             |:|:|   || :|:  |:||:   || |: :  ||:
Db     186 QQSDLEQERRAKEKLQEQQRDLEQRKADTKKNLERKKE 223


RESULT  28
US-09-085-199B-2
; Sequence 2, Application US/09085199B
; Patent No. 6235879
;  GENERAL INFORMATION:
;    APPLICANT:  Hayden. Michael R.
;    APPLICANT:  Hackam, Abigail
;    APPLICANT:  Huq, A.H.M. Mahbubul
;    APPLICANT:  Chopra, Vikramjit Singh
;    APPLICANT:  Kalchman, Michael
;    TITLE OF INVENTION:  Apoptosis Modulators That Interact with the
;    TITLE OF INVENTION:  Huntington's Disease Gene
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Oppedahl & Larson
;      STREET:  PO Box 5270
;      CITY:  Frisco
;      STATE:  CO
;      COUNTRY:  USA
;      ZIP:  80443-5270
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50 inch, 1.44 Kb storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS DOS 5.0
;      SOFTWARE:  WordPerfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/085,199B
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Larson, Marina T.
;      REGISTRATION NUMBER:  32038
;      REFERENCE/DOCKET NUMBER:  UBC.P-013US2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (970) 668-2050
;      TELEFAX:  (970) 668-2052
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  386
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  no
;    ORIGINAL SOURCE:
;      ORGANISM:  human
;    FEATURE:
;      OTHER INFORMATION:  Huntington-interacting protein
US-09-085-199B-2


  Query Match             12.5%;  Score 133.5;  DB 4;  Length 386;
  Best Local Similarity   22.3%;  Pred. No. 0.00037;
  Matches   54;  Conservative   57;  Mismatches   90;  Indels   41;  Gaps    9;

Qy       4 INKLFFDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATV 63
           :||       |:::::::|  |  |:  ::|||   :  | :|| ::  |:  : |  | :
Db     117 VNK------DEKDHLIER--LYREISGLKAQL---ENMKTESQRVVLQLKGHVSELEADL 165

Qy      64 VSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIELLLQSQLP 123
             |    :|   |  |: ::  | |::| |::||     :  | :  ||    |: :
Db     166 AEQQHLRQQAADDCEFLRAELDELRQRED-TEKAQRSLSEIERKAQANEQRYSKLKEKYS 224

Qy     124 EV----EEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEA---------RKASG--EVAD 168
           |:     :::|         |        | |::| : |:::         ||     || :
Db     225 ELVQNHADLLRKNAEVTKQVSMARQAQVDLEREKKELEDSLERISDQGQRKTQEQLEVLE 284

Qy     169 KLRKDLFSSRSKLQTVYSELDQAK----------LELKSAQKDLQSA----DKEIMSLKK 214
             |:::| :|: :|| :   |: :            ||:  :  | |     ::|: :|:|
Db     285 SLKQELGTSQRELQVLQGSLETSAQSEANWAAEFAELEKERDSLVSGAAHREEELSALRK 344

Qy     215 KL 216
           :|
Db     345 EL 346


RESULT  29
5180810-1
;Patent No. 5180810
;    APPLICANT: Gomi, Hideyuki;Hozumi, Tatsunobu;Hattori, Shizuo;
;Tagawa, Chiaki;Kishimoto, Fumitaka;Bjorck, Lars
;    TITLE OF INVENTION: PROTEIN H CAPABLE OF BINDING TO IGG
;    NUMBER OF SEQUENCES: 4
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/376,641
;      FILING DATE: 07-JUL-1989
;SEQ ID NO:1:
;      LENGTH: 376
5180810-1


  Query Match             12.4%;  Score 132.5;  DB 6;  Length 376;
  Best Local Similarity   23.5%;  Pred. No. 0.00044;
  Matches   55;  Conservative   41;  Mismatches   83;  Indels   55;  Gaps    8;

Qy      13 QEEENVLDREFLK-------NELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVS 65
           |||   || :  |         |:| : : |: :: |::          | | : |
Db      49 QEEYKKLDEDNAKLVEVVETTSLENEKLK-SENEENKKN--------LDKLSKENQ---- 95

Qy      66 LQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMEQIE---------- 115
             || |      | :: ||::   | |: |:|      : |  ||:|
Db      96 -----GKLE------KLELDYLKKLDHEHKEHQKEQQEQEERQKNQEQLERKYQREVEKR 144

Qy     116 ----LLLQSQLPEVEEMI---------RDMGVGQSAVEQLAVYCVSLKKEYENLKEARKA 162
               | || | |: |          ||:   ::| : |      |: |:: ||| ::
Db     145 YQEQLQKQQQL-ETEKQISEASRKSLSRDLEASRAAKKDLEAEHQKLEAEHQKLKEDKQI 203

Qy     163 SGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKL 216
           |      | :|| :||:  : : :   : : | :  ::| | :|     | : |
Db     204 SDASRQGLSRDLEASRAAKKELEANHQKLEAEHQKLKEDKQISDASRQGLSRDL 257


RESULT  30
US-09-572-191-2
; Sequence 2, Application US/09572191
```

```
; Patent No. 6355466
; GENERAL INFORMATION:
;  APPLICANT:  Beraud, Christophe
;  APPLICANT:  Sakowicz, Roman
;  APPLICANT:  Wood, Kenneth
;  TITLE OF INVENTION:  No. 6355466el motor proteins and methods for
;  TITLE OF INVENTION:  their use
;  FILE REFERENCE:  1017
;  CURRENT APPLICATION NUMBER: US/09/572,191
;  CURRENT FILING DATE:  2000-05-17
;  NUMBER OF SEQ ID NOS:  6
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 1388
;   TYPE: PRT
;   ORGANISM: Human
US-09-572-191-2


  Query Match             12.4%;  Score 132.5;  DB 4;  Length 1388;
  Best Local Similarity   24.5%;  Pred. No. 0.0022;
  Matches   48;  Conservative   44;  Mismatches   65;  Indels   39;  Gaps    8;

Qy      10 DLAQEEENVLDREF-LKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEER--------- 59
           :|  | : :::: : |: :||::: |    |:   |:| : :   ::::||
Db    1203 NLRLESQQLIEKNWLLQGQLDDIKRQKENSDQNHPDNQQLKNEQEESIKERLAKSKIVEE 1262

Qy      60 ----NATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKM------- 108
               | :  :| ||   || |  :  :   :|: |    :| :|  :||||:
Db    1263 MLKMKADLEEVQSALYNKEMECLRMTDE---VERTQTLESKAFQEKEQLRSKLEEMYEER 1319

Qy     109 -KTMEQIELLLQSQLPEVEEMIRDMG--VGQSAVEQLAVYCVSLKKEYENLKEARKASGE 165
            :| :::|:| :    :|| :  : | ||   : |   | | ||||   |        |
Db    1320 ERTSQEMEMLRK----QVECLAEENGKLVGHQNLHQKIQYVVRLKKENVRL-------AE 1368

Qy     166 VADKLR-KDLFSSRSK 180
             :||| :::|    |
Db    1369 ETEKLRAENVFLKEKK 1384


RESULT  31
US-08-938-105-3
; Sequence 3, Application US/08938105
; Patent No. 6353151
;  GENERAL INFORMATION:
;    APPLICANT:  Leinwand, Leslie A.
;    APPLICANT:  Vikstrom, Karen L.
;    TITLE OF INVENTION:  TRANSGENIC MODEL FOR HEART FAILURE
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross P.C.
;      STREET:  1700 Lincoln St., Suite 3500
;      CITY:  Denver
;      STATE:  CO
;      COUNTRY:  U.S.A.
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/938,105
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Crook, Wannell M.
;      REGISTRATION NUMBER:  31,071
;      REFERENCE/DOCKET NUMBER:  3595-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (303) 863-9700
;      TELEFAX:  (303) 863-0223
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH: 1886 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-938-105-3


  Query Match             12.4%;  Score 132.5;  DB 4;  Length 1886;
  Best Local Similarity   21.1%;  Pred. No. 0.0033;
  Matches   64;  Conservative   59;  Mismatches   80;  Indels  101;  Gaps   12;

Qy       1 RTIINKLFFDLAQEEENVLDR--------------------EFLK--------------- 25
           |  : ||  || :| | : :|                     || |
Db    1078 RAKVEKLRSDLTRELEEISERLEEAGGATSVQIEMNKKREAEFQKMRRDLEEATLQHEAT 1137

Qy      26 ----------------NELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQA 69
                           ::||::    : :||| : :: :| :   :|:
Db    1138 AAALRKKHADSVAELGEQIDNLQRVKQKLEKEKSEFKLELDDVTSHMEQ----------- 1186

Qy      70 LGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGR-------LRSKMKT--------MEQI 114
           : ||:   : |:|  : || | :| :   ||| |        |:|::|       :|:
Db    1187 IIKAK---ANLEKVSRTLEDQANEYRVKLEEAQRSLNDFTTQRAKLQTENGELARQLEEK 1243

Qy     115 ELLL----------QSQLPEVEEMIRDMGVGQSAVE---QLAVY-CVSLKKEYENLKEAR 160
           | |:            |: :::  : : |  ::|:    | | : |  |:::||   ||:
Db    1244 EALIWQLTRGKLSYTQQMEDLKRQLEEEGKAKNALAHALQSARHDCDLLREQYEEEMEAK 1303

Qy     161 KASGEVADKLRKDLFSSRSKLQT----VYSELDQAKLELKSAQKDLQSADKEIMSLKKKL 216
               |  |   ::   |:| :|       ||::|| :|  ||: || |:: : ::  |
Db    1304 AELQRVLSKANSEVAQWRTKYETDAIQRTEELEEAKKKL--AQR-LQDAEEAVEAVNAKC 1360

Qy     217 TMLQ 220
           : |:
Db    1361 SSLE 1364


RESULT  32
US-08-466-390-4
; Sequence 4, Application US/08466390
; Patent No. 5686562
;  GENERAL INFORMATION:
;    APPLICANT:  TOUKATLY, GARY
;    APPLICANT:  LIDGARD, GRAHAM P
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA, HURWITZ & THIBEAULT
;      STREET:  125 HIGH STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/466,390
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 248-7000
;      TELEFAX:  (617) 248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
```

```
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-466-390-4


  Query Match             12.2%;  Score 130;  DB 1;  Length 2101;
  Best Local Similarity   24.9%;  Pred. No. 0.0061;
  Matches   57;  Conservative   47;  Mismatches   81;  Indels   44;  Gaps   10;

Qy      24 LKNELDNVRAQLSQKDKE----KRDSQVIIDTLRDTLEERNATVVSLQQALGKAEMLCST 79
           | :||  : | : |:|:|    |: ::     |  ||:::      |:    : | | |:
Db     503 LTSELTTLNATIQQQDQELAGLKQQAKEKQAQLAQTLQQQEQASQGLRH---QVEQLSSS 559

Qy      80 LK---KQMKYLEQQQDETKQ---------AQEEAGRLRSKMKTMEQIELL---------- 117
           ||   :|:| : ::|: |:|          |:|    || :   ::|:| |
Db     560 LKQKEQQLKEVAEKQEATRQDHAQQLATAAEEREASLRERDAALKQLEALEKEKAAKLEI 619

Qy     118 LQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENL--------KEARKASGEVADK 169
           || || :|    ||    |::| |        | :: | |        :|  :|  :||:
Db     620 LQQQL-QVANEARDS--AQTSVTQAQREKAELSRKVEELQACVETARQEQHEAQAQVAE- 675

Qy     170 LRKDLFSSRSKL---QTVYSELDQAKLELKSAQKDLQSADKEIMSLKKK 215
           |   | | : |    : |  | || : :|:: :: |:     :   |::
Db     676 LELQLRSEQQKATEKERVAQEKDQLQEQLQALKESLKVTKGSLEEEKRR 724


RESULT  33
US-08-470-950-4
; Sequence 4, Application US/08470950
; Patent No. 5698439
;  GENERAL INFORMATION:
;    APPLICANT:  TOUKATLY, GARY
;    APPLICANT:  LIDGARD, GRAHAM P
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA, HURWITZ & THIBEAULT
;      STREET:  125 HIGH STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/470,950
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 248-7000
;      TELEFAX:  (617) 248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-470-950-4


  Query Match             12.2%;  Score 130;  DB 1;  Length 2101;
  Best Local Similarity   24.9%;  Pred. No. 0.0061;
  Matches   57;  Conservative   47;  Mismatches   81;  Indels   44;  Gaps   10;

Qy      24 LKNELDNVRAQLSQKDKE----KRDSQVIIDTLRDTLEERNATVVSLQQALGKAEMLCST 79
           | :||  : | : |:|:|    |: ::     |  ||:::      |:    : | | |:
Db     503 LTSELTTLNATIQQQDQELAGLKQQAKEKQAQLAQTLQQQEQASQGLRH---QVEQLSSS 559

Qy      80 LK---KQMKYLEQQQDETKQ---------AQEEAGRLRSKMKTMEQIELL---------- 117
           ||   :|:| : ::|: |:|          |:|    || :   ::|:| |
Db     560 LKQKEQQLKEVAEKQEATRQDHAQQLATAAEEREASLRERDAALKQLEALEKEKAAKLEI 619

Qy     118 LQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENL--------KEARKASGEVADK 169
           || || :|    ||    |::| |        | :: | |        :|  :|  :||:
Db     620 LQQQL-QVANEARDS--AQTSVTQAQREKAELSRKVEELQACVETARQEQHEAQAQVAE- 675

Qy     170 LRKDLFSSRSKL---QTVYSELDQAKLELKSAQKDLQSADKEIMSLKKK 215
           |   | | : |    : |  | || : :|:: :: |:     :   |::
Db     676 LELQLRSEQQKATEKERVAQEKDQLQEQLQALKESLKVTKGSLEEEKRR 724


RESULT  34
US-08-467-781-4
; Sequence 4, Application US/08467781
; Patent No. 5780596
;  GENERAL INFORMATION:
;    APPLICANT:  TOUKATLY, GARY
;    APPLICANT:  LIDGARD, GRAHAM P
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA, HURWITZ & THIBEAULT
;      STREET:  125 HIGH STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,781
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 248-7000
;      TELEFAX:  (617) 248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-781-4


  Query Match             12.2%;  Score 130;  DB 1;  Length 2101;
  Best Local Similarity   24.9%;  Pred. No. 0.0061;
  Matches   57;  Conservative   47;  Mismatches   81;  Indels   44;  Gaps   10;

Qy      24 LKNELDNVRAQLSQKDKE----KRDSQVIIDTLRDTLEERNATVVSLQQALGKAEMLCST 79
           | :||  : | : |:|:|    |: ::     |  ||:::      |:    : | | |:
Db     503 LTSELTTLNATIQQQDQELAGLKQQAKEKQAQLAQTLQQQEQASQGLRH---QVEQLSSS 559

Qy      80 LK---KQMKYLEQQQDETKQ---------AQEEAGRLRSKMKTMEQIELL---------- 117
           ||   :|:| : ::|: |:|          |:|    || :   ::|:| |
Db     560 LKQKEQQLKEVAEKQEATRQDHAQQLATAAEEREASLRERDAALKQLEALEKEKAAKLEI 619

Qy     118 LQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENL--------KEARKASGEVADK 169
           || || :|    ||    |::| |        | :: | |        :|  :|  :||:
```

```
Db    620 LQQQL-QVANEARDS--AQTSVTQAQREKAELSRKVEELQACVETARQEQHEAQAQVAE- 675

Qy    170 LRKDLFSSRSKL---QTVYSELDQAKLELKSAQKDLQSADKEIMSLKKK 215
          |   | | : |    : |  | || : :|:: :: |:     :   |::
Db    676 LELQLRSEQQKATEKERVAQEKDQLQEQLQALKESLKVTKGSLEEEKRR 724


RESULT  35
US-08-195-487-4
; Sequence 4, Application US/08195487
; Patent No. 5783403
;  GENERAL INFORMATION:
;    APPLICANT:  TOUKATLY, GARY
;    APPLICANT:  LIDGARD, GRAHAM P
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA HURWITZ & THIBEAULT
;      STREET:  53 STATE STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/195,487
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/901,701
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617/248-7000
;      TELEFAX:  617/248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-195-487-4


  Query Match             12.2%;  Score 130;  DB 1;  Length 2101;
  Best Local Similarity   24.9%;  Pred. No. 0.0061;
  Matches   57;  Conservative   47;  Mismatches   81;  Indels   44;  Gaps   10;

Qy     24 LKNELDNVRAQLSQKDKE----KRDSQVIIDTLRDTLEERNATVVSLQQALGKAEMLCST 79
          | :||  : | : |:|:|    |: ::     |  ||:::      |:    : | | |:
Db    503 LTSELTTLNATIQQQDQELAGLKQQAKEKQAQLAQTLQQQEQASQGLRH---QVEQLSSS 559

Qy     80 LK---KQMKYLEQQQDETKQ---------AQEEAGRLRSKMKTMEQIELL---------- 117
          ||   :|:| : ::|: |:|         |:|    || :   ::|:| |
Db    560 LKQKEQQLKEVAEKQEATRQDHAQQLATAAEEREASLRERDAALKQLEALEKEKAAKLEI 619

Qy    118 LQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENL--------KEARKASGEVADK 169
          || || :|    ||    |::| |       | :: | |        :|  :|  :||:
Db    620 LQQQL-QVANEARDS--AQTSVTQAQREKAELSRKVEELQACVETARQEQHEAQAQVAE- 675

Qy    170 LRKDLFSSRSKL---QTVYSELDQAKLELKSAQKDLQSADKEIMSLKKK 215
          |   | | : |    : |  | || : :|:: :: |:     :   |::
Db    676 LELQLRSEQQKATEKERVAQEKDQLQEQLQALKESLKVTKGSLEEEKRR 724


RESULT  36
US-08-483-924-4
; Sequence 4, Application US/08483924
; Patent No. 5882876
;  GENERAL INFORMATION:
;    APPLICANT:  TOUKATLY, GARY
;    APPLICANT:  LIDGARD, GRAHAM P
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA, HURWITZ & THIBEAULT
;      STREET:  125 HIGH STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/483,924
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 248-7000
;      TELEFAX:  (617) 248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-483-924-4


  Query Match             12.2%;  Score 130;  DB 2;  Length 2101;
  Best Local Similarity   24.9%;  Pred. No. 0.0061;
  Matches   57;  Conservative   47;  Mismatches   81;  Indels   44;  Gaps   10;

Qy     24 LKNELDNVRAQLSQKDKE----KRDSQVIIDTLRDTLEERNATVVSLQQALGKAEMLCST 79
          | :||  : | : |:|:|    |: ::     |  ||:::      |:    : | | |:
Db    503 LTSELTTLNATIQQQDQELAGLKQQAKEKQAQLAQTLQQQEQASQGLRH---QVEQLSSS 559

Qy     80 LK---KQMKYLEQQQDETKQ---------AQEEAGRLRSKMKTMEQIELL---------- 117
          ||   :|:| : ::|: |:|         |:|    || :   ::|:| |
Db    560 LKQKEQQLKEVAEKQEATRQDHAQQLATAAEEREASLRERDAALKQLEALEKEKAAKLEI 619

Qy    118 LQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENL--------KEARKASGEVADK 169
          || || :|    ||    |::| |       | :: | |        :|  :|  :||:
Db    620 LQQQL-QVANEARDS--AQTSVTQAQREKAELSRKVEELQACVETARQEQHEAQAQVAE- 675

Qy    170 LRKDLFSSRSKL---QTVYSELDQAKLELKSAQKDLQSADKEIMSLKKK 215
          |   | | : |    : |  | || : :|:: :: |:     :   |::
Db    676 LELQLRSEQQKATEKERVAQEKDQLQEQLQALKESLKVTKGSLEEEKRR 724


RESULT  37
US-09-452-294-1
; Sequence 1, Application US/09452294
; Patent No. 6287790
; GENERAL INFORMATION:
;  APPLICANT:  Lelievre, Sophie
;  APPLICANT:  Bissell, Mina
;  TITLE OF INVENTION:  UTILIZATION OF NUCLEAR STRUCTURAL PROTEINS FOR TARGETED
;  TITLE OF INVENTION:  THERAPH AND DETECTION OF PROLIFERATIVE AND
;  TITLE OF INVENTION:  DIFFERENTIATION DISORDERS
```

```
;  FILE REFERENCE:  IB-1454- Sequence Submittal
; Patent No. 6287790
;  CURRENT APPLICATION NUMBER: US/09/452,294
;  CURRENT FILING DATE:  1999-11-30
;  PRIOR APPLICATION NUMBER:  60/110,420
;  PRIOR FILING DATE:  1998-11-30
;  NUMBER OF SEQ ID NOS:  1
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 2101
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-452-294-1


  Query Match             12.2%;  Score 130;  DB 4;  Length 2101;
  Best Local Similarity   24.9%;  Pred. No. 0.0061;
  Matches   57;  Conservative   47;  Mismatches   81;  Indels   44;  Gaps   10;

Qy      24 LKNELDNVRAQLSQKDKE----KRDSQVIIDTLRDTLEERNATVVSLQQALGKAEMLCST 79
           | :||  : | : |:|:|    |: ::     |  ||:::      |:    : | | |:
Db     503 LTSELTTLNATIQQQDQELAGLKQQAKEKQAQLAQTLQQQEQASQGLRH---QVEQLSSS 559

Qy      80 LK---KQMKYLEQQQDETKQ---------AQEEAGRLRSKMKTMEQIELL---------- 117
           ||   :|:| : ::|: |:|         |:|    || :   ::|:| |
Db     560 LKQKEQQLKEVAEKQEATRQDHAQQLATAAEEREASLRERDAALKQLEALEKEKAAKLEI 619

Qy     118 LQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENL--------KEARKASGEVADK 169
           || || :|    ||    |::| |        | :: | |        :|  :|  :||:
Db     620 LQQQL-QVANEARDS--AQTSVTQAQREKAELSRKVEELQACVETARQEQHEAQAQVAE- 675

Qy     170 LRKDLFSSRSKL---QTVYSELDQAKLELKSAQKDLQSADKEIMSLKKK 215
           |   | | : |    : |  | || : :|:: :: |:     :   |::
Db     676 LELQLRSEQQKATEKERVAQEKDQLQEQLQALKESLKVTKGSLEEEKRR 724


RESULT  38
PCT-US93-06160-4
; Sequence 4, Application PC/TUS9306160
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;    TITLE OF INVENTION:  INTERIOR NUCLEAR MATRIX
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TESTA HURWITZ & THIBEAULT
;      STREET:  53 STATE STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US93/06160
;      FILING DATE:  19930621
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PITCHER ESQ, EDMUND R
;      REGISTRATION NUMBER:  27,829
;      REFERENCE/DOCKET NUMBER:  MTP-013
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617/248-7000
;      TELEFAX:  617/248-7100
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2101 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US93-06160-4


  Query Match             12.2%;  Score 130;  DB 5;  Length 2101;
  Best Local Similarity   24.9%;  Pred. No. 0.0061;
  Matches   57;  Conservative   47;  Mismatches   81;  Indels   44;  Gaps   10;

Qy      24 LKNELDNVRAQLSQKDKE----KRDSQVIIDTLRDTLEERNATVVSLQQALGKAEMLCST 79
           | :||  : | : |:|:|    |: ::     |  ||:::      |:    : | | |:
Db     503 LTSELTTLNATIQQQDQELAGLKQQAKEKQAQLAQTLQQQEQASQGLRH---QVEQLSSS 559

Qy      80 LK---KQMKYLEQQQDETKQ---------AQEEAGRLRSKMKTMEQIELL---------- 117
           ||   :|:| : ::|: |:|         |:|    || :   ::|:| |
Db     560 LKQKEQQLKEVAEKQEATRQDHAQQLATAAEEREASLRERDAALKQLEALEKEKAAKLEI 619

Qy     118 LQSQLPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENL--------KEARKASGEVADK 169
           || || :|    ||    |::| |        | :: | |        :|  :|  :||:
Db     620 LQQQL-QVANEARDS--AQTSVTQAQREKAELSRKVEELQACVETARQEQHEAQAQVAE- 675

Qy     170 LRKDLFSSRSKL---QTVYSELDQAKLELKSAQKDLQSADKEIMSLKKK 215
           |   | | : |    : |  | || : :|:: :: |:     :   |::
Db     676 LELQLRSEQQKATEKERVAQEKDQLQEQLQALKESLKVTKGSLEEEKRR 724


RESULT  39
US-08-402-217A-2
; Sequence 2, Application US/08402217A
; Patent No. 5587301
;  GENERAL INFORMATION:
;    APPLICANT:  Hawkins, Phillip R.
;    APPLICANT:  Wilde, Craig G.
;    APPLICANT:  Seilhamer, Jeffrey J.
;    TITLE OF INVENTION:  HYALURONAN RECEPTOR EXPRESSED IN HUMAN
;    TITLE OF INVENTION:  UMBILICAL VEIN ENDOTHELIAL CELLS
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  INCYTE PHARMACEUTICALS, INC.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/402,217A
;      FILING DATE:  10-MAR-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Luther, Barbara J.
;      REGISTRATION NUMBER:  33954
;      REFERENCE/DOCKET NUMBER:  PF-0028US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-855-0555
;      TELEFAX:  415-852-0195
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH: 351 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-402-217A-2


  Query Match             12.1%;  Score 129.5;  DB 1;  Length 351;
  Best Local Similarity   25.6%;  Pred. No. 0.00073;
  Matches   58;  Conservative   47;  Mismatches   97;  Indels   25;  Gaps    8;

Qy       9 FDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDS--QVIIDTLRDTLEERNATVVSL 66
           | | |:| - | :: |  ::|:    | |::||   |  | :     :  :|:|     |
```

```
Db      8 FILEQQEREKLQQKEL--QIDS----LLQQEKELSSSLHQKLCSFQEEMAKEKNLFEEEL 61

Qy     67 QQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTME----------QIE 115
          :| | : : |    ::  : ::| ::| |   ||   |  |:|  |           |
Db     62 KQTLDELDKLQQKEEQAERLVKQLEEEAKSRAEELKLLEEKLKGKEAELEKSSAAHTQAT 121

Qy    116 LLLQSQLPEVEEMIRDMGVGQSAVEQL-AVYCVSLKKEYENLKEARKASGEVADKLRKDL 174
          |||: :   : : : |:     : : | |     || |  :|:|    :|: |: ::  :
Db    122 LLLEEKYDSMVQSLEDVTAQFESYKALTASEIEDLKLENSSLQEKVAKAGKNAEDVQHQI 181

Qy    175 FSSRSKLQTVYSELDQAKLELKSAQKDLQSADKEI-MSLKKKLTMLQ 220
           :: |  |     |    |: ||| |: :   ||| :|  :|:| ||
Db    182 LATESSNQEYVRML--LDLQTKSALKETEI--KEITVSFLQKITDLQ 224


RESULT  40
US-08-700-178-2
; Sequence 2, Application US/08700178
; Patent No. 5783669
; Patent No. 5783669 5700912
;  GENERAL INFORMATION:
;    APPLICANT:  Hawkins, Phillip R.
;    APPLICANT:  Wilde, Craig G.
;    APPLICANT:  Seilhamer, Jeffrey J.
;    TITLE OF INVENTION:  HYALURONAN RECEPTOR EXPRESSED IN HUMAN
;    TITLE OF INVENTION:  UMBILICAL VEIN ENDOTHELIAL CELLS
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  INCYTE PHARMACEUTICALS, INC.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/700,178
;      FILING DATE:  August 20, 1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/402,217
;      FILING DATE:  March 10, 1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0028-1 DIV
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-855-0555
;      TELEFAX:  415-845-4166
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  351 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-700-178-2


  Query Match             12.1%;  Score 129.5;  DB 1;  Length 351;
  Best Local Similarity   25.6%;  Pred. No. 0.00073;
  Matches   58;  Conservative   47;  Mismatches   97;  Indels   25;  Gaps    8;

Qy      9 FDLAQEEENVLDREFLKNELDNVRAQLSQKDKEKRDS--QVIIDTLRDTLEERNATVVSL 66
          | | |:|   | :: |  ::|:    | |::||   |  | :     :  :|:|     |
Db      8 FILEQQEREKLQQKEL--QIDS----LLQQEKELSSSLHQKLCSFQEEMAKEKNLFEEEL 61

Qy     67 QQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTME----------QIE 115
          :| | : : |    ::  : ::| ::| |   ||   |  |:|  |           |
Db     62 KQTLDELDKLQQKEEQAERLVKQLEEEAKSRAEELKLLEEKLKGKEAELEKSSAAHTQAT 121

Qy    116 LLLQSQLPEVEEMIRDMGVGQSAVEQL-AVYCVSLKKEYENLKEARKASGEVADKLRKDL 174
          |||: :   : : : |:     : : | |     || |  :|:|    :|: |: ::  :
Db    122 LLLEEKYDSMVQSLEDVTAQFESYKALTASEIEDLKLENSSLQEKVAKAGKNAEDVQHQI 181

Qy    175 FSSRSKLQTVYSELDQAKLELKSAQKDLQSADKEI-MSLKKKLTMLQ 220
           :: |  |     |    |: ||| |: :   ||| :|  :|:| ||
Db    182 LATESSNQEYVRML--LDLQTKSALKETEI--KEITVSFLQKITDLQ 224


Search completed: September  4, 2002, 16:11:00
Job time: 7599 sec
```